

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continue to pass through Lat. 27°N/Long.90°E, Cooch Behar, Sriniketan, Ghatshila, Keonjhar, Nowrangpur, Elluru, Nalgonda, Nanded, Nasik, Dahanu, Lat.20°N/Long.65°E and Lat.20°N/Long.60°E.
- Conditions are becoming favorable for withdrawal of Southwest Monsoon from entire country and for commencement of Northeast Monsoon rains over parts of extreme south Peninsula by tomorrow, the 28th October, 2020.
- A cyclonic circulation lies over Southwest Bay of Bengal off north Tamil Nadu coast in lower & mid tropospheric levels. Under its influence; i) Scattered to fairly widespread rainfall with isolated heavy falls and moderate thunderstorm & lightning very likely over Kerala & Mahe and Tamilnadu & Puducherry during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar Islands; at a few places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Lakshadweep and Kerala & Mahe and at isolated places over Vidarbha, Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, Karnataka, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over North Interior Karnataka.
- Maximum Temperature Departures as on 26-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Jharkhand, East Madhya Pradesh, Vidarbha and Kerala & Mahe ; at a few places over Bihar, East Rajasthan, Gangetic West Bengal, Odisha, West Madhya

Pradesh, Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch and Rayalaseema and at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Telangana, Gujarat Region and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.6°C was reported at Porbandar & Veraval (Saurashtra & Kutch).

- Minimum Temperature Departures as on 26-10-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over East Madhya Pradesh, Madhya Maharashtra, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and at isolated places over South Interior Karnataka, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over West Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, Bihar and Odisha and at isolated places over Gujarat Region, West Madhya Pradesh and Vidarbha and near normal over rest parts of the country. The lowest minimum temperature of 9.5°C reported at UNA (Himachal Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 October (Day 1): Heavy rainfall very likely at isolated places over Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Goa, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 28 October (Day 2): Heavy rainfall very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 29 October (Day 3): Heavy rainfall very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning

very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

- 30 October (Day 4): Heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 31 October (Day 5): Heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 27 October to 04 November 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Assam

Weather condition:

Weather during the last week was mainly clear to partly cloudy. Daily average maximum temperature was 33.2°C which was 2.7°C above normal and the average daily minimum temperature was 23.8°C which was 2.3°C above normal for the week. Total BSSH was 37.9 hrs with an average of 6.3 hrs/day. The daily average evaporation rate was 1.9 mm/day and the average daily wind speed during the week 0.8 kmph. Daily average RH during morning and afternoon hour was 96% and 69% respectively.

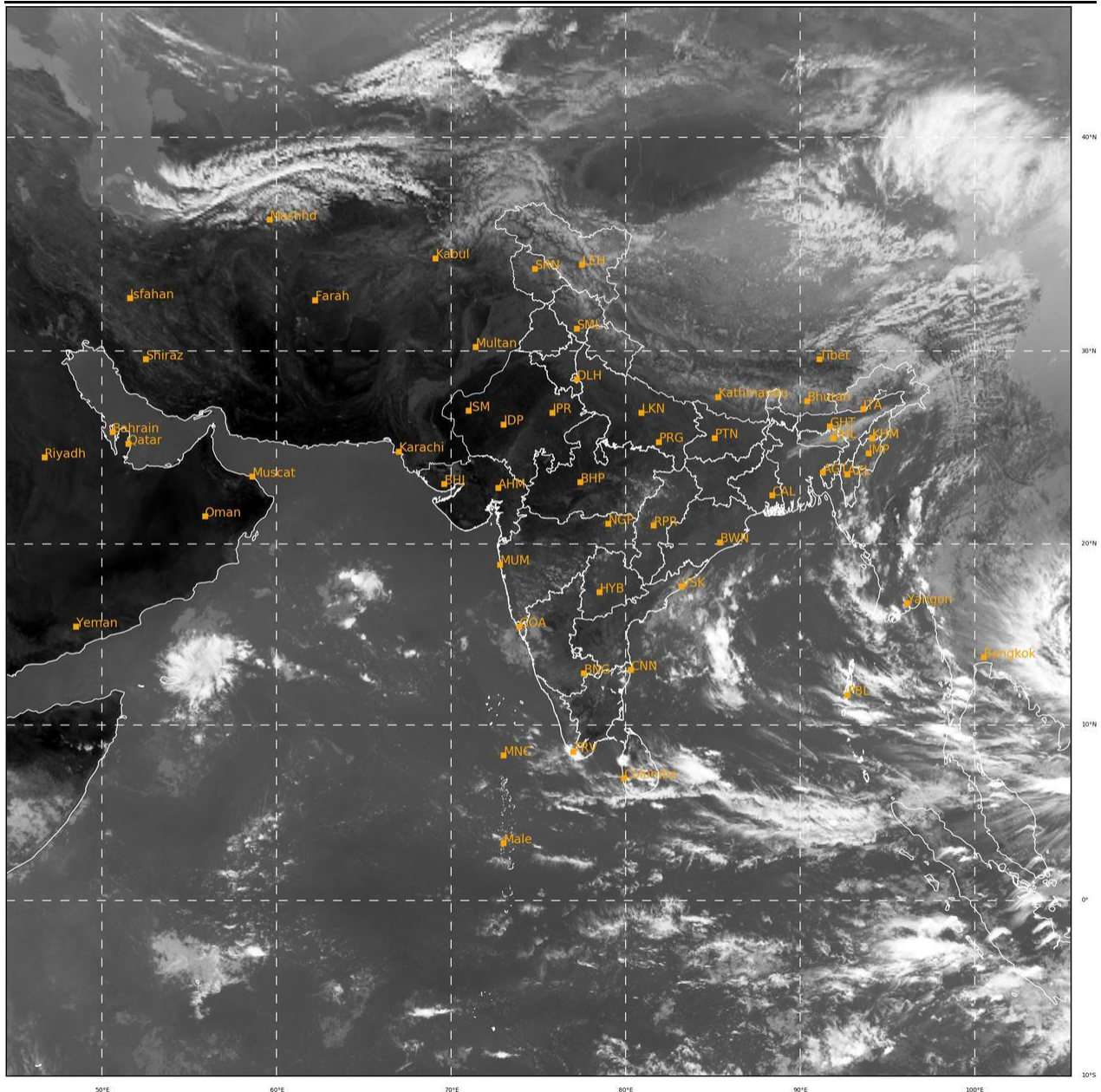
Contingency measure:

- Sali rice:- Under the milking stage of rice, attack of gundhi bug is a menace during this period. Since no possibilities of getting moderate to heavy amount of rainfall during the past week, farmers are advised to go for dusting of Malathion 5% dust @ 2.6kg per bigha land if 1-2 bugs per sq. meter area were noticed. Again, Neem Seed Kernel Extract (NSKE) @ 1.5gm per lit. of water may also be applied to control this pest.
- Kharif pulses (green and black gram):- The crop is in vegetative stage. Go for thinning operation in greengram and black gram crop in order to maintain sufficient amount of plant population and spacing. One weeding at 20-25 days after sowing is highly recommended to avoid crop-weed competition.
- Potato (land preparation):- Select well drained sandy loam and loam soils rich in organic matter for potato cultivation. Field should be ploughed thoroughly to obtain a good tilth with furrows at 50cm interval. Collect tubers of the recommended early varieties viz., Kufri Chandramukhi, Kufri Sindhuri, Kufri Megha etc. Apply 3-4 cart loads of well decomposed FYM in per bigha land in the furrows before planting of potato tuber. For proper fertility management, apply 19kg Urea, 45kg SSP and 12kg MOP in furrows as basal application and covered with a thin layer of soils so that tuber do not come into direct contact with the fertilizers.
- Toria (Land preparation):- Continue land preparation for toria cultivation. The optimum sowing period is mid- October to mid-November. However, early sowing escape aphid attack in toria. Select recommended cultivars like- M-27, TS-36, TS-38, TS-46 etc. for toria cultivation. During the land preparation apply 300-400kg FYM per bigha land and mix thoroughly in the soil. Under rainfed condition apply 12kg Urea, 30kg SSP and 25kg MOP per bigha land during final land preparation. A seed rate of 1.3kg per bigha is found optimum for toria cultivation.

- Tomato (Nursery bed preparation):- Select sunny area with well drained light to rich in organic matter for nursery raising bed. Bring the soil to fine tilth and prepare the bed 1m width and of convenient length and raise it to 10-15cm above ground level. Before sowing drenching of soil 0.1% solution of Carboxin and after drying thoroughly mix Malathion 5% dust @ 20g per 10 square meter area to protect the seedlings from soil borne insects. Collect seeds of recommended varieties viz., Punjab Chuhara, S-12, Punjab Keshri, Sioux, Arka Alok, arka Abha etc.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

27-10-2020/(0800 to 0827) GMT
27-10-2020/(1330 to 1357) IST



346

936

IMD, DELHI

Figure: 1. Latest available satellite picture as on 27 October 2020 at 1357 Hrs (IST). (Source: IMD).

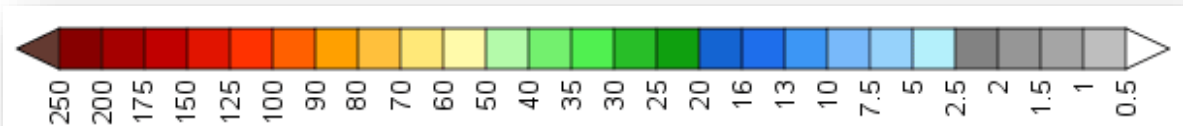
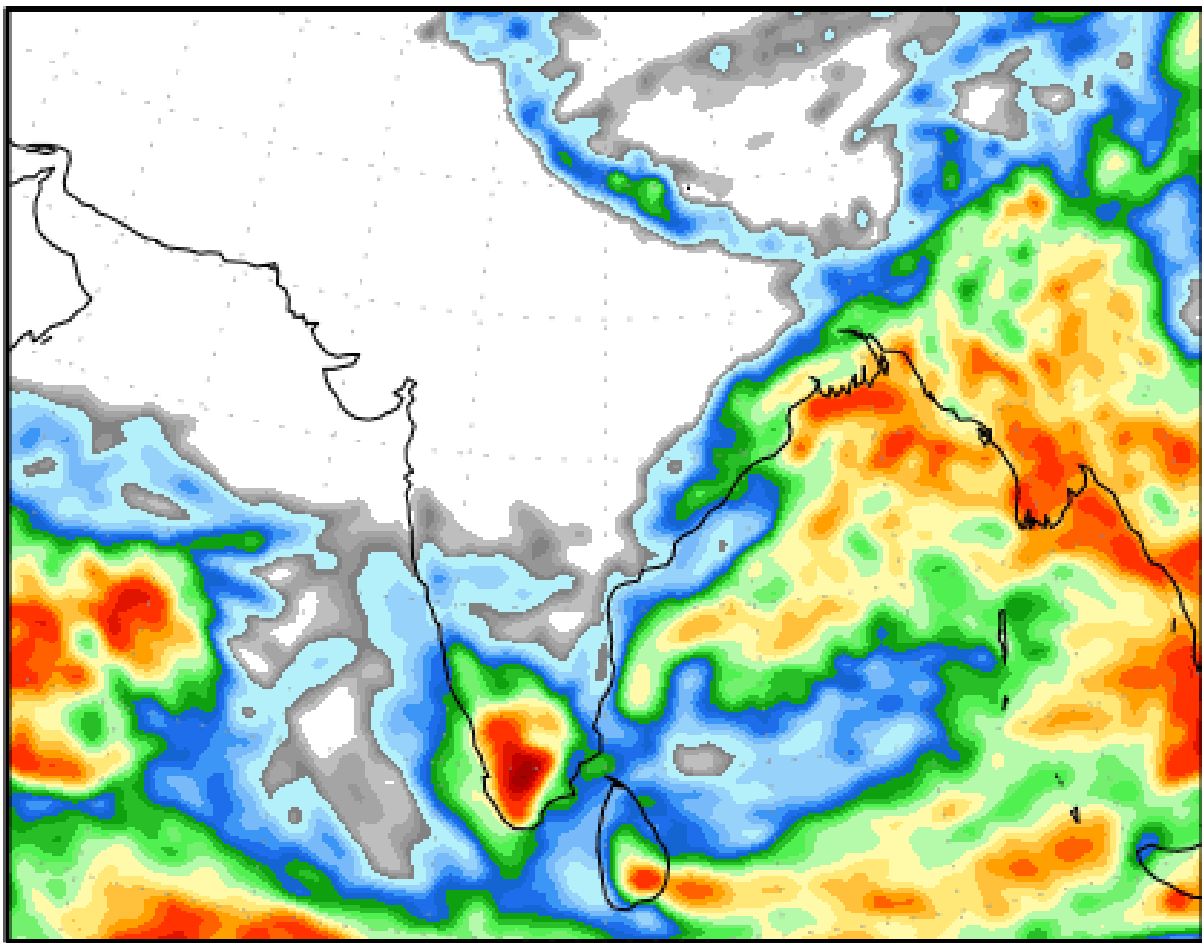


Figure:2. Precipitation forecast for 27 Oct to 04 Nov 2020 (Source: NOAA NCEP).

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